McBasic Series

Ethernet-based, Standalone Media Converters

RoHS Compliant

MEDIA CONVERSION

When simple, individual, copper-to-fiber conversions are required, along with advanced troubleshooting features, installing McBasic Series standalone media converters is the perfect, cost-effective solution.

Features and Benefits

Perfect for a variety of applications
- Has a small, rugged design offering many advanced features

Meets a multitude of installation requirements
- Available in 10 Mbps, 100 Mbps, 1000 Mbps, and Auto-Sensing 10/100 versions
- Available for multi-mode or single-mode fiber
- Also available for single-strand fiber
- Available with ST or SC connectors

Converts 10 Mbps twisted pair to fiber today, and 100 Mbps twisted pair to fiber tomorrow
- McBasic 10/100 provides transparent end-to-end 10/100 Auto Negotiation for easy upgrade; no user intervention or visits to remote locations required

Eases troubleshooting
- LinkLoss, FiberAlert, Transparency and Link Fault Detection features, along with LEDs, assist in diagnosing problems on fiber optic networks

McBasic 10 Mbps Converters:
- Convert 10 Mbps twisted pair to 10 Mbps fiber

McBasic 100 Mbps Converters:
- Convert 100 Mbps twisted pair to 100 Mbps fiber

McBasic 10/100, Auto-Sensing Dual-Speed Converters:
- Convert 10 Mbps twisted pair to 10 Mbps fiber OR convert 100 Mbps twisted pair to 100 Mbps fiber

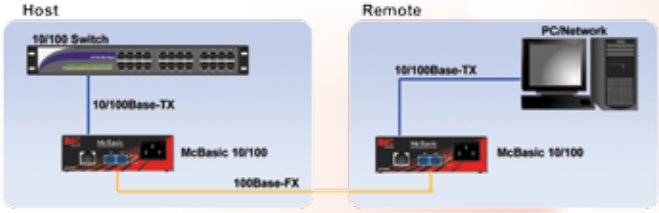
McBasic-Gigabit 1000 Mbps Converters:
- Convert 1000 Mbps twisted pair to 1000 Mbps fiber
- Features Link Fault Pass-Through (LFPT), a troubleshooting feature that monitors the copper and fiber ports of the unit; if a port loses LINK, the unit disables the transmitting signal on the other port (Pass-Through) and notifies the user via LED

The McBasic's small, table-top design and durability make it perfect for installation anywhere space is limited. Additionally, the McBasic comes with an internal AC power supply. This feature significantly increases reliability over products that use bulky, external AC/DC power transformers. The McBasic series includes:

The McBasic includes troubleshooting features such as LinkLoss, FiberAlert, Transparency and Link Fault Detection that make isolating fiber breaks easier should they occur. The McBasic also features either AutoCross or switch crossover/pass-through switch on twisted pair connections and diagnostic LEDs. Most McBasic units are available with single-strand fiber which can effectively double the capacity of fiber by allowing two individual channels to share one strand of fiber; Full-Duplex data travels on different wavelengths — 1310 nm and 1550 nm, for example.

Auto-Sensing 10/100 Mbps McBasic converters offer significant advantages over regular 10 and 100 Mbps converters. An ideal choice for both enterprise and service provider networks, 10/100 converters save time and money when deployed at the host and remote site. Enterprise networks planning a migration path from 10 Mbps to 100 Mbps often deploy Auto Sensing converters, then upgrade when ready and units will automatically adapt to increased speed. Service providers with 10 or 100 Mbps links to customer premises can sell customers more bandwidth without upgrading the converters at the POP and the customer network edge.

Application Example



Technical Specifications

McBasic 10 Mbps

- IEEE 802.3 10Base-T twisted pair and 10Base-FL fiber
- Features LinkLoss and Pulsing FiberAlert

McBasic 100 Mbps

- IEEE 802.3u 100Base-TX twisted pair and 100Base-FX or -SX fiber
- Features LinkLoss and FiberAlert
- Features Auto Negotiation

McBasic 10/100

- IEEE 802.3 10Base-T twisted pair and 10Base-FL fiber
- IEEE 802.3u 100Base-TX twisted pair and 100Base-FX or -SX fiber
- Features Link Fault Detection and Transparency
- Features Auto Negotiation

McBasic-Gigabit

- IEEE 802.3ab 1000Base-T twisted pair
- IEEE 802.3z 1000Base-LX or SX fiber
- Features Link Fault Pass-Through (LFPT) and FiberAlert

All McBasic Serries

- Include MDI/MDIX switch
- Includes fixed, internal AC power
- 50/125μm or 62.5/125μm multi-mode fiber
- 9/125μm single-mode fiber
- Includes diagnostic LEDs

McBasic 10, 100 ,10/100 Dimensions

1.64"H x 4.75"W x 4.95"D
(4.2 cm x 12.17 cm x 11.64 cm)

McBasic Gigabit Dimensions:

1.64"H x 4.75"W x 7.3"D
(4.2 cm x 12.17 cm x 18.71 cm)

Connectors:

- RJ-45 and ST or SC (McBasic Gigabit SC only)
- Supports Half- and Full-Duplex operation

Regulatory Approvals:

- FCC Class A
- UL/cUL, CSA, CE

Operating Temperature:

+32° to +122° F (0° to +50° C)

Storage Temperature:

0° to +160° F (-20° to +70° C)

Humidity:

5% – 95% (non-condensing)

Shipping Weight:

1.7 lbs (0.77 kg) - McBasic Gigabit
1.3 lbs (0.58 kg) All others

Power Rating:

100-240 VAC, 50/60Hz, 1.0A

Fiber Optics Specifications

For each product listed below in the Ordering Information section, the DISTANCE represents an approximate fiber distance based on industry-standard fiber attenuation specifications. Actual distances will vary for each installation. For complete power budgets and information on calculating specific distances, visit www.imcnetworks.com/go/fcs or contact IMC Networks Fiber Consulting Services at 949-465-3000.

Ordering Information

PART #	DESCRIPTION	DIST
McBasic 10 Mbps		
855-10230	TP/FO-MM850-ST	2 km
855-10231	TP/FO-MM850-SC	2 km
855-10232	TP/FO-MM1300-ST	2 km
855-10233	TP/FO-MM1300-SC	2 km
855-10234	TP/FO-SM1310/PLUS-ST	40 km
855-10235	TP/FO-SM1310/PLUS-SC	40 km
855-10237	TP/FO-SM1310/LONG-ST	40 km
855-10238	TP/FO-SM1310/LONG-SC	40 km
855-10240	TP/FO-SM1550/LONG-SC	80 km

PART #	DESCRIPTION	DIST
McBasic 10/100 Mbps		
855-10260	10/100-MM850-ST	2 km
855-10261	10/100-MM850-SC	2 km
855-10262	10/100-MM1300-ST	5 km
855-10263	10/100-MM1300-SC	5 km
855-10267	10/100-SM1310/PLUS-ST	40 km
855-10268	10/100-SM1310/PLUS-SC	40 km
855-10269	10/100-SM1310/LONG-ST	80 km
855-10270	10/100-SM1310/LONG-SC	80 km
855-10274	10/100-SM1550/LONG-SC	80 km

PART #	DESCRIPTION	DIST
McBasic 100 Mbps		
855-10929	TX/SX-MM850-ST	2 km
855-10930	TX/SX-MM850-SC	2 km
855-10927	TX/FX-MM1300-ST	5 km
855-10928	TX/FX-MM1300-SC	5 km
855-10931	TX/FX-SM1310/PLUS-ST	40 km
855-10932	TX/FX-SM1310/PLUS-SC	40 km
855-10933	TX/FX-SM1310/LONG-ST	80 km
855-10934	TX/FX-SM1310/LONG-SC	80 km
855-10937	TX/FX-SM1550/LONG-SC	80 km
McBasic 100 Mbps Single-Strand Fiber *		
855-10949	TX/SSFX-MM1310-SC (1550rcv)	2 km
855-10950	TX/SSFX-MM1550-SC (1310rcv)	2 km
855-10951	TX/SSFX-SM1310-SC (1550rcv)	20 km
855-10952	TX/SSFX-SM1550-SC (1310rcv)	20 km
855-10953	TX/SSFX-SM1310/PLUS-SC (1550rcv)	40 km
855-10954	TX/SSFX-SM1550/PLUS-SC (1310rcv)	40 km
855-10955	TX/SSFX-SM1310/LONG-SC (1550rcv)	60 km
855-10957	TX/SSFX-SM1550/LONG-SC (1310rcv)	60 km

PART #	DESCRIPTION	DISTANCE
McBasic Gigabit 1000 Mbps		
855-11913	TX/SX-MM850-SC	220/550 m
855-11914	TX/LX-SM1310/-SC	15 km
855-11915	TX/LX-SM1310/PLUS-SC	40 km
855-11917	TX/LX-SM1550/LONG-SC	80 km
855-11918	TX/LX-SM1550/XLONG-SC	100 km
McBasic 1000 Mbps Gigabit Single-Strand Fiber *		
855-11844	TX/SSLX-SM1310-SC (1550rcv)	15 km
855-11845	TX/SSLX-SM1550-SC (1310rcv)	15 km
855-11824	TX/SSBX-SM1310-SC (1490rcv)	10 km
855-11825	TX/SSBX-SM1490-SC (1310rcv)	10 km
855-11826	TX/SSBX-SM1310/PLUS-SC (1490rcv)	30 km
855-11827	TX/SSBX-SM1490/PLUS-SC (1310rcv)	30 km
855-11846	TX/SSLX-SM1310/PLUS-SC (1550rcv)	40 km
855-11847	TX/SSLX-SM1550/PLUS-SC (1310rcv)	40 km
855-11850	TX/SSLX-SM1310/LONG-SC (1550rcv)	70 km
855-11851	TX/SSLX-SM1550/LONG-SC (1310rcv)	70 km

* These products have single-strand fiber technology.
Deploy in pairs, or connect to another compatible IMC Networks single-strand fiber product.
For more information go to: www.imcnetworks.com/products/SSFX.cfm

PART #	DESCRIPTION
Rackmount/Wallmount Accessories	
895-39226	McBasic, MediaChassis, AccessEtherLinX Rackmount Brackets
895-39227	McBasic, MediaChassis, AccessEtherLinX Wallmount Brackets
895-39228	McBasic, MediaChassis, AccessEtherLinX x3 Rackmount Shelf
895-39949	McBasic, iMediaChassis/3, MediaChassis, AccessEtherLinX Rackmount Shelf

FCS Fiber Consulting Services · RoHS · Made in USA · 6-YEAR Comprehensive Warranty · ISO 9001:2008 REGISTERED

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